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INTERNATIONAL
INCORPORATED

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COPY



**SUMMARY REPORT
HYDRAULIC HOIST REMOVAL
ConocoPhillips Corporation**

ConocoPhillips Facility No. 256357
3323 Marine Drive NE
MARYSVILLE, WASHINGTON
DATE: February 28, 2005
SECOR PN: 01CP.06357.03

Submitted by:
Greg McCormick, L.G.
Associate Geologist

Submitted by:
SECOR International Incorporated
12034 134th Court NE, Suite 102
P.O. Box 230
Redmond, Washington 98052

Reviewed by:
Marc Sauze, P.E.
Senior Engineer

Submitted to:
Mr. Kipp Eckert, P.E.
ConocoPhillips
1144 Eastlake Avenue E, Suite 201
Seattle, Washington 98109

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE BACKGROUND	1
3.0	FIELD ACTIVITIES.....	1
3.1	HOIST EXCAVATION.....	1
3.1.1	Hoist Description	1
3.1.2	Hoist Excavation Description	2
3.1.3	Stockpile Description	2
3.2	CONFIRMATORY SOIL SAMPLING.....	2
3.2.1	Soil Description.....	2
3.2.2	Field Screening Results.....	2
4.0	ANALYTICAL RESULTS	2
4.1	RESULTS SUMMARY	3
5.0	WASTE MANAGEMENT.....	4
6.0	SUMMARY	4

LIST OF FIGURES

FIGURE 1	Site Location Map
FIGURE 2	Site Plan

TABLE

TABLE 1	Soil Sampling Results
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LIST OF APPENDICES

APPENDIX A	Photograph Log
APPENDIX B	Laboratory Analytical Reports
APPENDIX C	Soil Sampling Procedures
APPENDIX D	Soil Disposal Manifest

1.0 INTRODUCTION

SECOR International Incorporated (SECOR), on behalf of ConocoPhillips Corporation (ConocoPhillips), has prepared this report summarizing the results of soil sampling completed during the removal of a hydraulic hoist at ConocoPhillips Facility Number 256357 in Marysville, Washington. SECOR completed the work on January 17, 2005 with a follow-up sampling event on January 26th. The soil sampling work was completed to investigate the soil quality beneath the hoist during removal activities.

2.0 SITE BACKGROUND

ConocoPhillips Facility Number 256357 (site) is currently operating as a retail petroleum and service station under the "76" brand name. The site is located at 3323 Marine Drive in Marysville, Washington. Interstate 5 is located just east of the site building across the service road with downtown Marysville located beyond (Figure 1).

The site consists of a station building with three service bays and a petroleum-dispensing island equipped with a canopy. The building is located approximately on the center of the site with the service bays on the north end of the building and the office at the southwest corner of the building. The dispenser island is located to the west of the building. The northernmost hydraulic hoist was removed from Service Bay #3 on January 17, 2005. The hoists from Service Bay #2 and Service Bay #1 were reportedly removed approximately 4 months ago. The excavated areas in Bay #1 and #2 have been patched with concrete (Figure 2).

3.0 FIELD ACTIVITIES

SECOR personnel arrived on-site at approximately 8:45 AM on January 17th, 2005. SECOR met with Mr. Richard Ohlemeier, owner of Richard Ohlemeier Construction, to discuss the planned removal. Mr. Ohlemeier's firm was hired to convert the service bay area into a mini-mart convenience store.

3.1 Hoist Excavation

When SECOR personnel arrived on the site, Mr. Ohlemeier's crew was excavating the surrounding soil from the hoist in Service Bay #3 at the north end of the building. The excavated soils were being stockpiled just west of the hoist. The hoist was removed from the excavation at 9:30 AM and placed on the asphalt pavement on the east side of the service bay for inspection. A small amount of hydraulic oil (less than one-half gallon) was released from one of the cylinders after the hoist was placed on the pavement. The end of the hoist was plugged with a cloth to prevent further release.

3.1.1 Hoist Description

The in-ground hoist removed from Bay 3 consisted of two cylinders joined by a steel framework. Each of the cylinders measured approximately 13" in diameter and 96" in

length. The hydraulic oil tanks were contained within the bodies of the hoists. The removed hoists appeared to be in generally good condition. Minor pitting and rusting was observed on the hoist cylinders and the steel support beams.

3.1.2 Hoist Excavation Description

The hoist excavation was located on the north end of the service bay area approximately three feet from the north wall of the building (Figure 2). The floor cut measured approximately 3 feet in width and 5 feet in length oriented north to south. After the hoist was removed, the excavation was extended to 8 feet below ground surface (bgs). The loosely consolidated sandy soil continued to slough off the sidewalls of the excavation but no groundwater was encountered.

3.1.3 Stockpile Description

The stockpile was located just west of the floor cut near the northwest corner of the service bay. The soil stockpile was approximately 10 cubic yards in volume.

3.2 Confirmatory Soil Sampling

One confirmatory soil sample was collected from approximately eight feet bgs at the base of the hoist excavation. The sandy soil appeared to be uniform in color and texture throughout the excavation. The sample was field screened for contamination via sheen testing. Soil sampling results are summarized in Table 1 and the sampling location is depicted in Figure 2.

3.2.1 Soil Description

The native soils consisted of loosely-consolidated well-graded sand (SW) medium brown sand from the bottom of the concrete slab to 8 feet bgs. There was no obvious discoloration or odor evident during the excavation or sampling procedures. No groundwater was encountered.

3.2.2 Field Screening Results

No sheen was detected from either the excavation samples or from the stockpile sample.

4.0 ANALYTICAL RESULTS

The soil samples collected from the excavation and soil stockpile were submitted for the following analyses using the listed methods.

- Total Petroleum Hydrocarbons as Diesel and Lube-Oil (TPH-D and TPH-O) by Ecology Method NWTPH- D_x
- PCBs by EPA Method 8082.

These analyses were chosen based on potential of impacts from the hydraulic hoist.

4.1 Results Summary

Sample EX-1, collected eight feet bgs from the base of the hoist excavation had a diesel-range TPH concentration of 130 mg/kg and oil-range TPH of 2,300 mg/kg. Sample SP1, collected from the soil stockpile had a diesel-range TPH concentration of 160 mg/kg and an oil-range concentration also 2,300 mg/kg.

Because the oil-range concentration at the base of the excavation was in excess of the Model Toxics Control Act Method A cleanup level of 2,000 mg/kg for diesel and oil-range TPH in soil, a second round of excavation was planned. SECOR personnel returned to the site on January 26th, 2005 to attempt to excavate additional material from the bottom and sidewalls of the former hoist area. In this round of excavation, SECOR contracted with Custom Backhoe for excavation and soil disposal services.

During the second phase, the floor cut was enlarged and additional soil was removed from the base and sidewalls of the excavation. Excavated material was stockpiled temporarily until it could be loaded into a dump truck for off-site disposal. Soil was removed until the depth of the excavation was 10 feet bgs, approximately the limits of the backhoe in use. No discoloration or odor was evident during the additional soil removal and no sheen was observed during the sheen test conducted on the material.

Samples were collected from the bottom of the enlarged excavation at approximately 10.5 feet bgs. Soil samples were also collected from the north sidewall and west sidewall of the excavation at depths of approximately 9 feet bgs. These samples were submitted for laboratory analysis for diesel and oil-range TPH by NWTPH-Dx as well as semi-volatile organic compounds by EPA Method 8270.

None of the second round of samples had detectable concentrations of diesel-range TPH. The sample from the bottom of the excavation had an oil-range TPH concentration of 4,700 mg/kg. The North Wall sample had an oil-range concentration of 980 mg/kg and the West Wall sample had a concentration of 640 mg/kg.

The sample collected from the bottom of the excavation had trace concentrations of pyrene, benzo[a]pyrene and benzo[g,h,i]perylene based upon the semivolatile analysis. All concentrations were below their respective MTCA Method A or Method B cleanup levels. Neither the north or west sidewall had detectable concentrations of semivolatile constituents.

The complete results of the laboratory analyses are summarized in Table 1. Copies of the laboratory analytical report and chain-of-custody documentation are included as Attachment B.

5.0 WASTE MANAGEMENT

Based on the oil-range TPH concentrations recorded in the stockpile sample, management of the stockpiled soils required adherence to the Ecology document '*Guidance for the Remediation of Petroleum Contaminated Soils*'. SECOR contacted TPS Technologies Inc.

(TPS) and arranged for the disposal of the stockpiled soils at a state-licensed facility. A total of 14.33 net tons of impacted soil was removed from the former hoist area and backfilled with 13.75 tons of clean 3/8" pea gravel. A copy of the waste disposal manifest and Rinker Materials receipt are included as Attachment D.

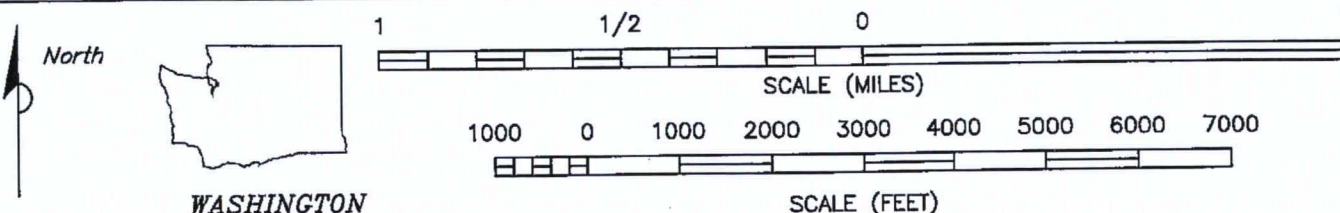
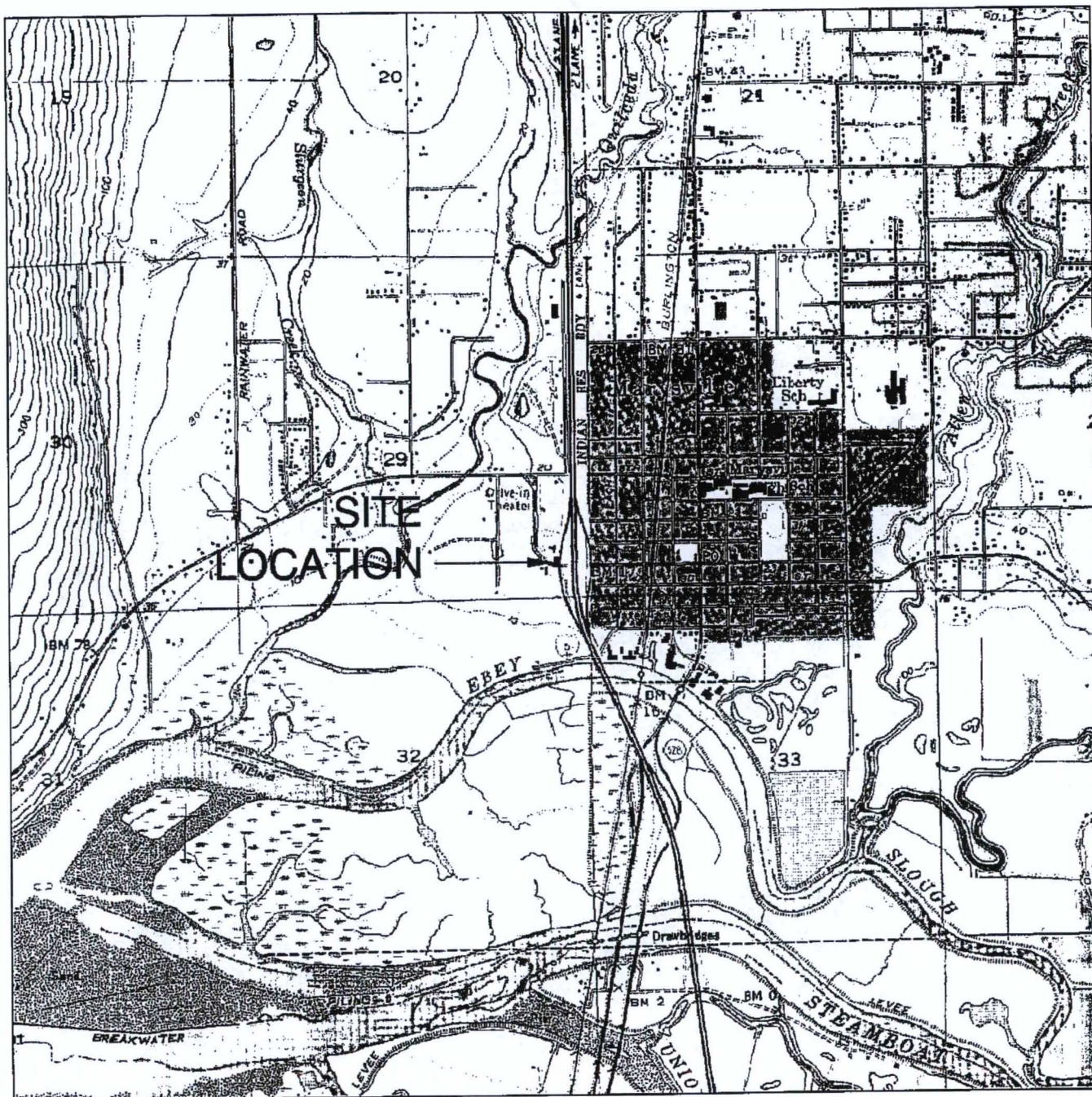
6.0 SUMMARY

SECOR personnel completed confirmatory soil sampling during the removal of a single hydraulic hoist at ConocoPhillips Facility Number 256357 on January 17, 2005. A second round of soil excavation was conducted on January 26, 2005. A total of four confirmatory soil samples were collected from the bottom and sidewalls of the former hydraulic lift area. One sample was collected from the soil stockpile for waste disposal characterization. The soil sample collected from the bottom of the excavation following the second round of excavation had an oil-range concentration of 4,700 mg/kg. The sample was collected from approximately 10.5 feet below ground surface near the maximum depth of the backhoe's extension. Groundwater was not observed in the excavation during either phase of excavation.

It is evident from the sampling results that impacted soils are present directly beneath the hoist cylinders with little lateral migration due to the high permeability of the sandy material beneath the service bays. For the constituents analyzed, it is evident that residual soil impact is limited to oil-range TPH. None of the samples collected from the final limits of the excavation had detectable concentrations of diesel-range TPH or semi-volatile organic compounds.

A total of 14.33 net tons of impacted soil was removed from the former hoist area and backfilled with 13.75 tons of clean 3/8" pea gravel.

SECOR appreciates the opportunity to provide environmental consulting services to ConocoPhillips. If you have any questions or comments regarding the information provided in this report or the status of the project, please contact Marc Sauze or Greg McCormick at (425) 372-1600.



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; MARYSVILLE, WASHINGTON; 1973



SECOR

12034 134th COURT NORTHEAST, SUITE 102
REDMOND, WASHINGTON 98052
PHONE: (425) 372-1800/(425) 372-1650 FAX

FOR:

ConocoPhillips

FACILITY NO. 256357
3323 MARINE DRIVE
MARYSVILLE, WASHINGTON

SITE LOCATION MAP

FIGURE:

1

JOB NUMBER:

01CP.06357.04

DRAWN BY:

S. SIMMONS

CHECKED BY:

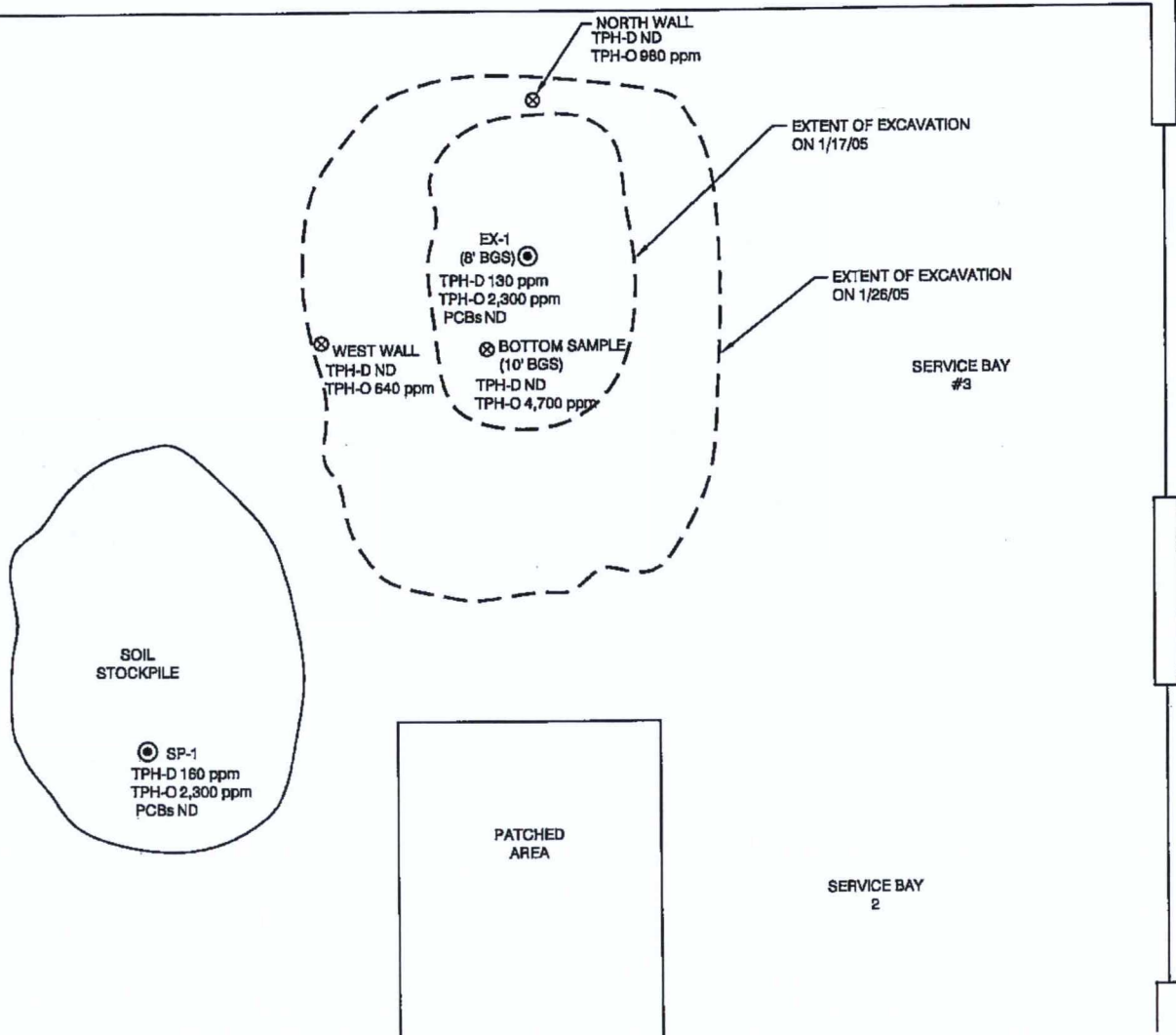
APPROVED BY:

DATE:

10/4/04

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FILEPATH:R:\CAD_FILES\PROJECTS\CONOCO\WASHINGTON\6357\6357(M).DWG MODIFIED BY SSIMMONS AT FEB 24, 2005 - 16:12



LEGEND

--- LIMITS OF EXCAVATION

⊙ SAMPLE LOCATION ON 1/17/05

⊗ SAMPLE LOCATION ON 1/26/05

TPH-D = TOTAL PETROLEUM HYDROCARBONS DIESEL

TPH-O = TOTAL PETROLEUM HYDROCARBONS OIL

ppm = PARTS PER MILLION

ND = NOT DETECTED

PCB = POLYCHLORINATED BIPHENYLS

BGS = BELOW GROUND SURFACE

NOT TO SCALE



SECOR

12034 134th COURT NORTHEAST, SUITE 102
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FOR:

ConocoPhillips

FACILITY 256357
3313 MARINE DRIVE
MARYSVILLE, WASHINGTON

**SITE PLAN
WITH LIMITS OF EXCAVATION AND
SOIL SAMPLE LOCATIONS (1/12 & 26/05)**

FIGURE:

2

JOB NUMBER:

01CP.06357-03

DRAWN BY:

S. SIMMONS

CHECKED BY:

APPROVED BY:

DATE:

2/24/05

FILEPATH: R:\Cad_Files\Projects\CONOCO\WASHINGTON\6357\hoist pull\96357(hp).dwg modified by sslmmons on Feb 24, 2005 at 16:11

PATHONLEFT

Table 1

Soil Sampling Results
ConocoPhillips Facility No. 256357
3323 Marine Drive NE
Marysville, Washington

SECOR PN: 01OT.18101.01

Sample ID	Sample Date	Depth (feet bgs)	PCBs	Semivolatiles	NWTPH - Dx ¹	
			USEPA Method 8082 (mg/kg)	USEPA Method 8270C mg/kg	Diesel/Fuel Oil (mg/kg)	Heavy Oil (mg/kg)
EX-1	1/17/2005	8	ND	NA	130	2,300
SP-1	1/17/2005		ND	NA	160	2,300
Bottom	1/26/2005	11.5	NA	ND*	ND	4,700
North Sidewall	1/26/2005	9	NA	ND	ND	980
West Sidewall	1/26/2005	9	NA	ND	ND	640
MTCA Method A Soil Cleanup Levels ²					2,000	2,000

Notes:

Bolded results indicate a detected concentration greater than MTCA Method A soil cleanup levels

1 = Total Petroleum Hydrocarbons in the diesel-range and motor oil-range analyzed using Ecology Method NWTPH-Dx.

2 = Washington State Department of Ecology Model Toxics Control Act (MTCA) Method A Cleanup Levels for Soil.

NA = Not Analyzed

ND = None Detected

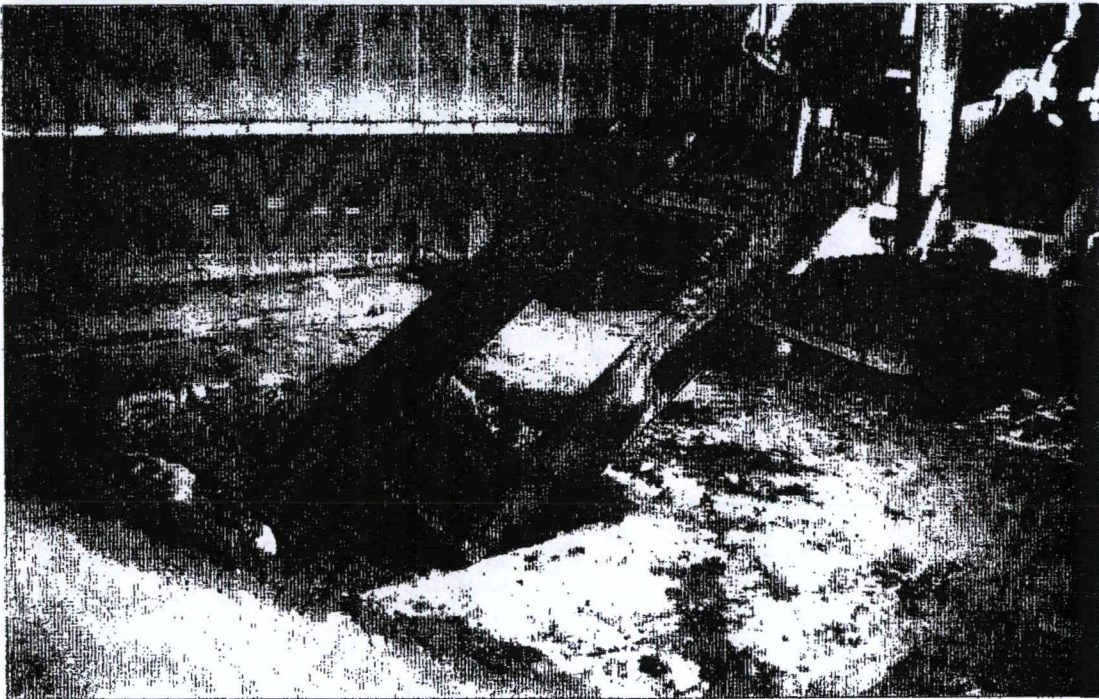
ND* = Constituents detected all below the MTCA Method A cleanup levels

**APPENDIX A
PHOTOGRAPH LOG**

PHOTOGRAPH LOG



Photograph 1: Hydraulic hoist in place at north end of service bay.



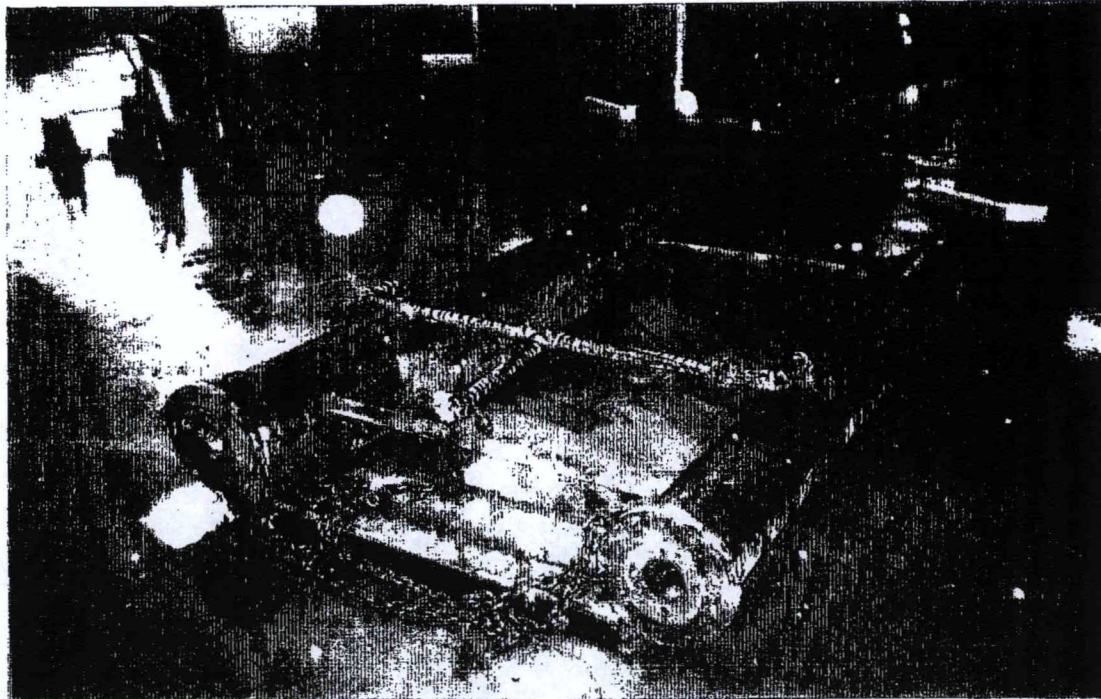
Photograph 2: Hydraulic hoist being removed from excavation with backhoe.



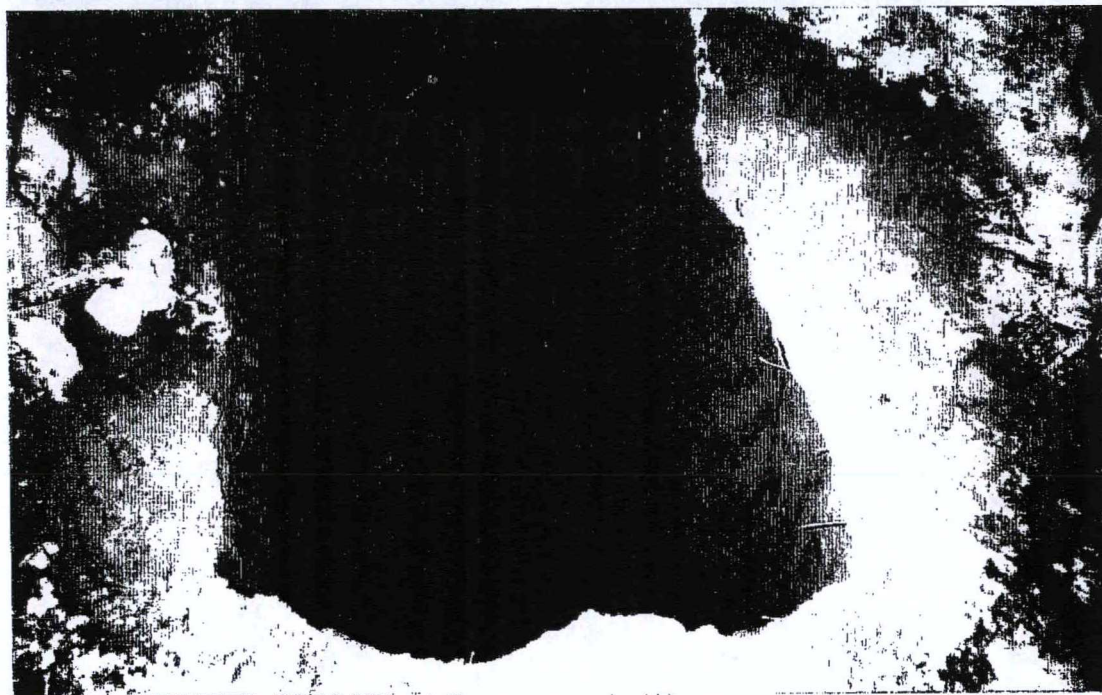
Hydraulic Hoist Decommissioning
Conoco-Phillips #256357
3323 Marine Drive
Marysville, Washington

SECOR PN: 01OT.18101.01

DATE: February 15, 2005



Photograph 3: Hoist staged outside service bay for inspection.



Photograph 4: Sandy soil surrounding hoist. No groundwater encountered.



Hydraulic Hoist Decommissioning
Conoco-Phillips #256357
 3323 Marine Drive
 Marysville, Washington

SECOR PN: 01OT.18101.01

DATE: February 15, 2005

APPENDIX B
LABORATORY ANALYTICAL REPORTS



**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

January 21, 2005

Greg McCormick
SECOR
P.O. Box 230
Redmond, WA 98073

Re: Analytical Data for Project Marysville Hoist Pull
Laboratory Reference No. 0501-123

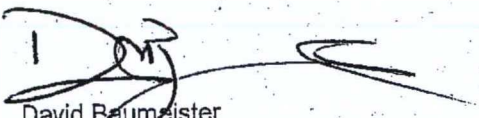
Dear Greg:

Enclosed are the analytical results and associated quality control data for samples submitted on January 17, 2005.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

Case Narrative

Samples were collected on January 17, 2005 and received by the laboratory on January 17, 2005. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

NWTPH-Dx

Date Extracted: 1-18-05
Date Analyzed: 1-19-05

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	EX-1	SP-1
Lab ID:	01-123-01	01-123-02

Diesel Range:	130	160
PQL:	27	27
Identification	Diesel Range Organics	Diesel Range Organics

Lube Oil Range:	2300	2300
PQL:	54	53
Identification	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	79%	64%

Flags:	Y	Y
--------	---	---

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-18-05
Date Analyzed: 1-18-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0118S1

Diesel Range: ND
PQL: 25
Identification: ---

Lube Oil Range: ND
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 72%

Flags: Y

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 1-18-05
Date Analyzed: 1-18&19-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-123-01 01-123-01 DUP

Diesel Range:	120	104
PQL:	25	25
RPD:	14	

Surrogate Recovery		
o-Terphenyl:	79%	67%

Flags:	Y	Y
--------	---	---

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

PCBs by EPA 8082

Date Extracted: 1-18-05

Date Analyzed: 1-18-05

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-123-01

Client ID: EX-1

	Result	PQL
Aroclor 1016	ND	0.054
Aroclor 1221	ND	0.054
Aroclor 1232	ND	0.054
Aroclor 1242	ND	0.054
Aroclor 1246	ND	0.054
Aroclor 1254	ND	0.054
Aroclor 1260	ND	0.054

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	56	41-128

Flags:

OnSite-Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

PCBs by EPA 8082

Date Extracted: 1-18-05
Date Analyzed: 1-18-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-123-02
Client ID: SP-1

	Result	PQL
Aroclor 1016	ND	0.053
Aroclor 1221	ND	0.053
Aroclor 1232	ND	0.053
Aroclor 1242	ND	0.053
Aroclor 1248	ND	0.053
Aroclor 1252	ND	0.053
Aroclor 1260	ND	0.053

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	47	41-128

Flags:

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-18-05
Date Analyzed: 1-18-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0118S1

	Result	PQL
Aroclor 1016	ND	0.050
Aroclor 1221	ND	0.050
Aroclor 1232	ND	0.050
Aroclor 1242	ND	0.050
Aroclor 1248	ND	0.050
Aroclor 1254	ND	0.050
Aroclor 1260	ND	0.050

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	93	41-128

Flags:

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

**PCBs by EPA 8082
MS/MSD QUALITY CONTROL**

Date Extracted: 1-18-05

Date Analyzed: 1-18-05

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-123-02

Spike Level: 0.500

	MS	Percent Recovery	MSD	Percent Recovery	RPD
Aroclor 1260	0.276	55	0.269	54	3
PQL	0.050		0.050		

	Percent Recovery	Percent Recovery	Control Limits
Surrogate Decachlorobiphenyl	55	54	41-128

Flags:

Date of Report: January 21, 2005
Samples Submitted: January 17, 2005
Laboratory Reference: 0501-123
Project: Marysville Hoist Pull

% MOISTURE

Date Analyzed: 1-18-05

Client ID	Lab ID	% Moisture
EX-1	01-123-01	7
SP-1	01-123-02	6

OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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and is intended only for the use of the individual or company to whom it is addressed.

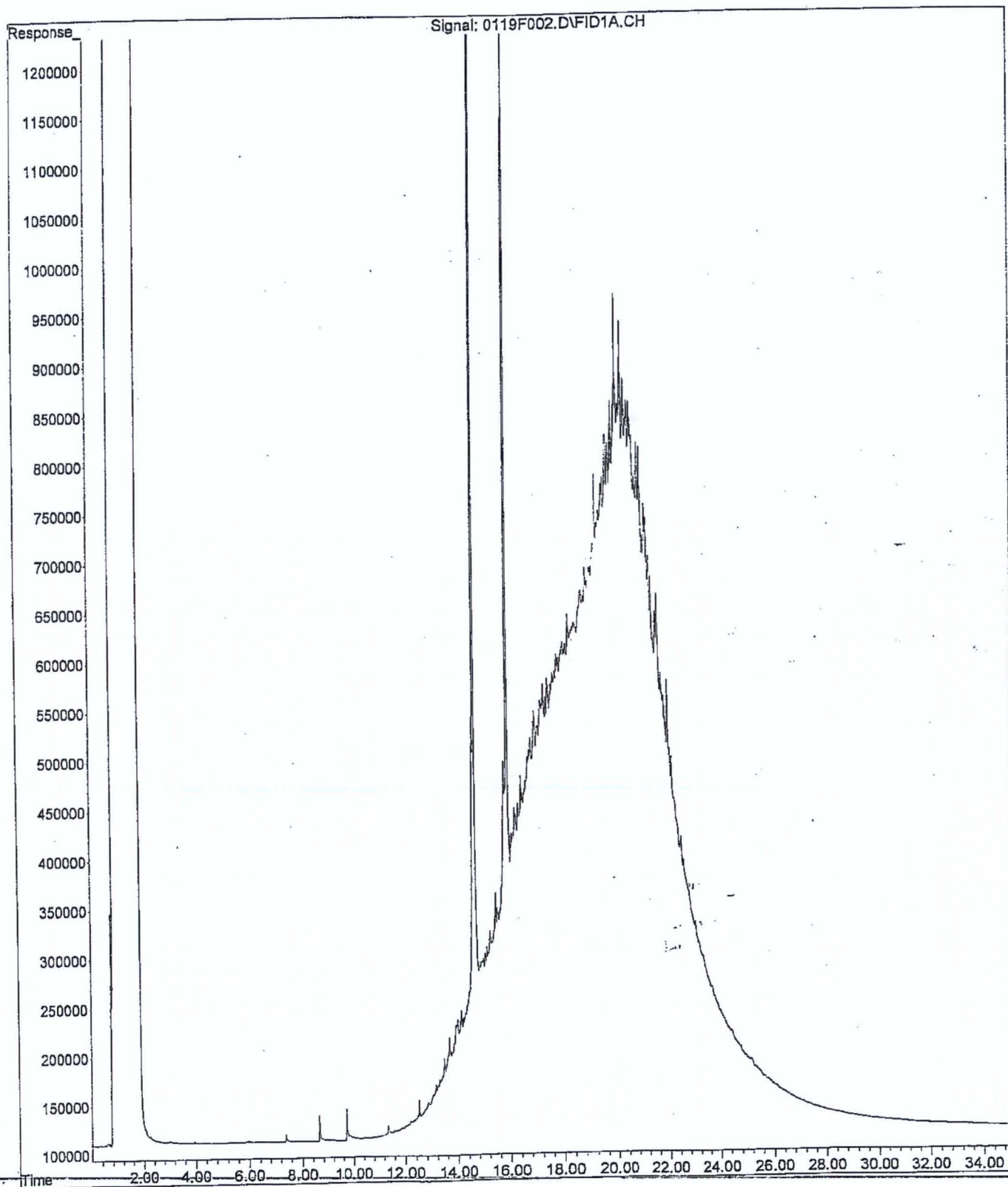


Data Qualifiers and Abbreviations

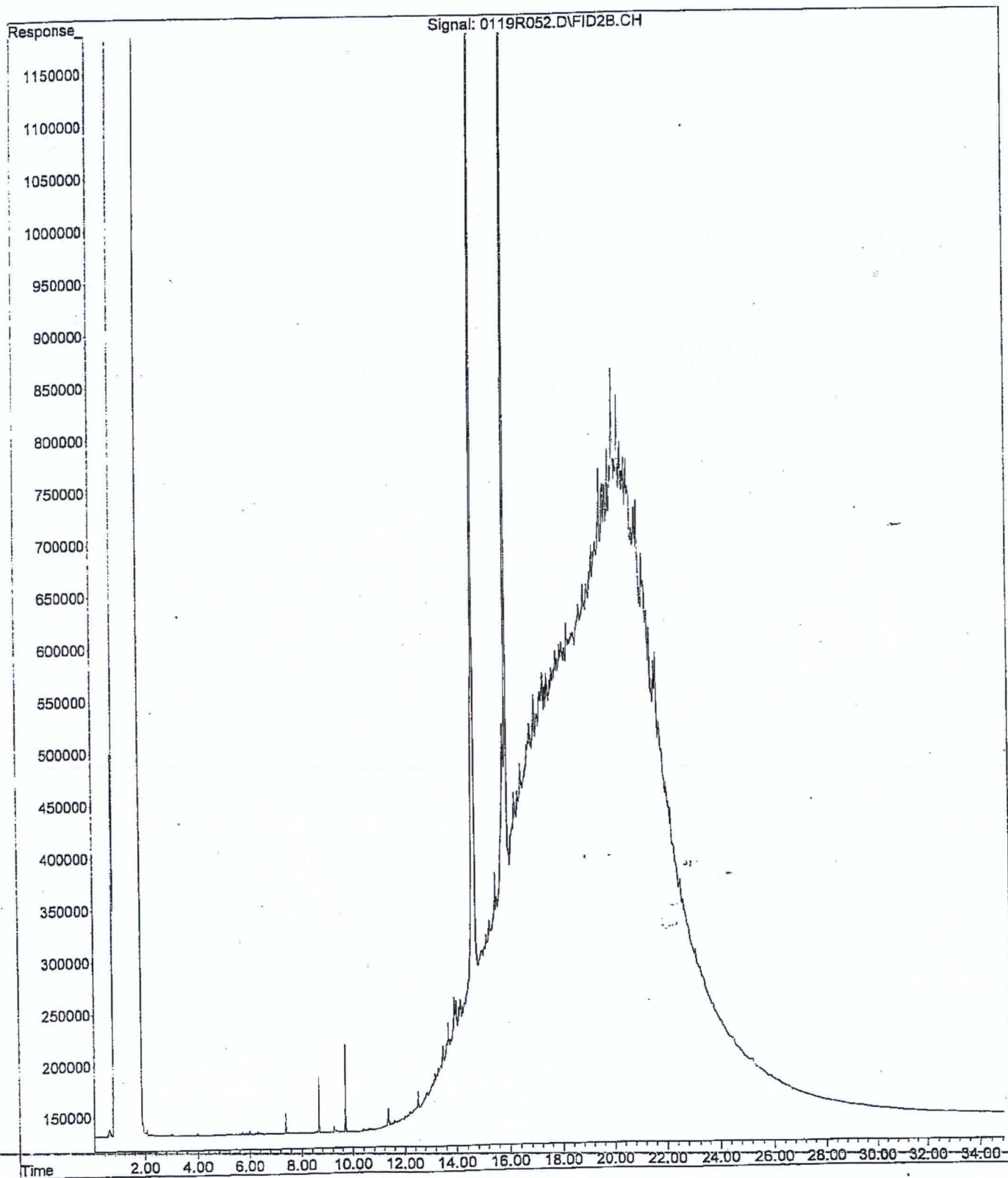
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- G - Insufficient sample quantity for duplicate analysis
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a silica gel cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference

File :X:\DIESELS\TERI\DATA\T050119\0119F002.D
Operator : DY
Acquired : 19 Jan 2005 9:45 using AcqMethod TERI_FRONT.M
Instrument : Teri
Sample Name: 01-123-02 RC
Misc Info :
Vial Number: 2



File :X:\DIESELS\TERI\DATA\T050119.SEC\0119R052.D
Operator : DY
Acquired : 19 Jan 2005 9:45 using AcqMethod TERI_FRONT.M
Instrument : Teri
Sample Name: 01-123-01 RC
Misc Info :
Vial Number: 52





**OnSite
Environmental Inc.**

Analytical Testing and Mobile Laboratory Services

February 4, 2005

Marc Sauze
SECOR
P.O. Box 230
Redmond, WA 98073

Re: Analytical Data for Project Conoco-Marysville
Laboratory Reference No. 0501-203

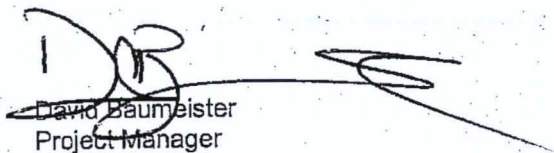
Dear Marc:

Enclosed are the analytical results and associated quality control data for samples submitted on January 26, 2005.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,


David Baumeister
Project Manager

Enclosures

Date of Report: February 4, 2005
Samples Submitted: January 26, 2005
Laboratory Reference: 0501-203
Project: Conoco-Marysville

Case Narrative

Samples were collected on January 26, 2005 and received by the laboratory on January 26, 2005. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 4, 2005
Samples Submitted: January 26, 2005
Laboratory Reference: 0501-203
Project: Conoco-Marysville

NWTPH-Dx

Date Extracted: 1-26-05
Date Analyzed: 1-28-05

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	Bottom Sample	North Wall	West Wall
Lab ID:	01-203-01	01-203-02	01-203-03
Diesel Range:	ND	ND	ND
PQL:	140	27	27
Identification:	---	---	---
Lube Oil Range:	4700	980	640
PQL:	280	54	54
Identification:	Lube Oil	Lube Oil	Lube Oil
Surrogate Recovery o-Terphenyl:	122%	138%	117%
Flags:	Y	Y	Y

OnSite-Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: February 4, 2005
Samples Submitted: January 26, 2005
Laboratory Reference: 0501-203
Project: Conoco-Marysville

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 1-26-05
Date Analyzed: 1-27-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0126S1

Diesel Range: ND
PQL: 25
Identification: ---

Lube Oil Range: ND
PQL: 50
Identification: ---

Surrogate Recovery:
o-Terphenyl: 132%

Flags: Y

Date of Report: February 4, 2005
Samples Submitted: January 26, 2005
Laboratory Reference: 0501-203
Project: Conoco-Marysville

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 1-26-05
Date Analyzed: 1-28-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 01-203-01 01-203-01 DUP

Diesel Range: ND ND
PQL: 130 130

RPD: N/A

Surrogate Recovery
o-Terphenyl: 122% 150%

Flags: Y Y

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Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 1 of 3

Date Extracted: 1-28-05
 Date Analyzed: 1-31-05
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 01-203-01
 Client ID: Bottom Sample

Compound:	Results	Flags	PQL
Aniline	ND		1.9
bis(2-Chloroethyl)ether	ND		0.37
Phenol	ND		0.19
2-Chlorophenol	ND		0.19
1,3-Dichlorobenzene	ND		0.19
1,4-Dichlorobenzene	ND		0.19
1,2-Dichlorobenzene	ND		0.19
Benzyl alcohol	ND		0.37
bis(2-chloroisopropyl)ether	ND		0.37
2-Methylphenol	ND		0.19
Hexachloroethane	ND		0.19
N-Nitroso-di-n-propylamine	ND		0.19
4-Methylphenol	ND		0.19
Nitrobenzene	ND		0.19
Isophorone	ND		0.19
2-Nitrophenol	ND		0.37
2,4-Dimethylphenol	ND		0.19
bis(2-Chloroethoxy)methane	ND		0.37
2,4-Dichlorophenol	ND		0.19
Benzoic acid	ND		1.9
1,2,4-Trichlorobenzene	ND		0.19
Naphthalene	ND		0.0074
4-Chloroaniline	ND		0.93
Hexachlorobutadiene	ND		0.37
4-Chloro-3-methylphenol	ND		0.19
2-Methylnaphthalene	ND		0.0074
1-Methylnaphthalene	ND		0.0074

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 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 2 of 3

Lab ID: 01-203-01
 Client ID: Bottom Sample

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		1.9
2,4,6-Trichlorophenol	ND		0.37
2,4,5-Trichlorophenol	ND		0.37
2-Chloronaphthalene	ND		0.37
2-Nitroaniline	ND		0.37
Acenaphthylene	ND		0.0074
Dimethylphthalate	ND		0.37
2,6-Dinitrotoluene	ND		0.93
Acenaphthene	ND		0.0074
3-Nitroaniline	ND		0.93
2,4-Dinitrophenol	ND		1.9
Dibenzofuran	ND		0.19
2,4-Dinitrotoluene	ND		0.93
4-Nitrophenol	ND		0.19
Fluorene	ND		0.0074
4-Chlorophenyl-phenylether	ND		0.19
Diethylphthalate	ND		0.37
4-Nitroaniline	ND		0.93
4,6-Dinitro-2-methylphenol	ND		0.93
n-Nitrosodiphenylamine	ND		0.19
4-Bromophenyl-phenylether	ND		0.19
Hexachlorobenzene	ND		0.19
Pentachlorophenol	ND		1.9
Phenanthrene	ND		0.0074
Anthracene	ND		0.0074
Carbazole	ND		0.19
Di-n-butylphthalate	ND		0.19
Fluoranthene	ND		0.0074
Benzidine	ND		4.6
Pyrene	0.011		0.0074

Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 3 of 3

Lab ID: 01-203-01
 Client ID: Bottom Sample

Compound:	Results	Flags	PQL
Butylbenzylphthalate	ND		0.37
3,3'-Dichlorobenzidine	ND		1.9
Benzo[a]anthracene	ND		0.0074
Chrysene	ND		0.0074
bis(2-Ethylhexyl)phthalate	ND		0.93
Di-n-octylphthalate	ND		0.19
Benzo[b]fluoranthene	ND		0.0074
Benzo[k]fluoranthene	ND		0.0074
Benzo[a]pyrene	0.0080		0.0074
Indeno[1,2,3-cd]pyrene	ND		0.0074
Dibenz[a,h]anthracene	ND		0.0074
Benzo[g,h,i]perylene	0.019		0.0074

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	75	25-121
Phenol-d6	79	24-113
Nitrobenzene-d5	74	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	90	19-122
Terphenyl-d14	89	18-137

Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 1 of 3

Date Extracted: 1-28-05
 Date Analyzed: 1-31-05

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 01-203-02
 Client ID: North Wall

Compound:	Results	Flags	PQL
Aniline	ND		0.36
bis(2-Chloroethyl)ether	ND		0.072
Phenol	ND		0.036
2-Chlorophenol	ND		0.036
1,3-Dichlorobenzene	ND		0.036
1,4-Dichlorobenzene	ND		0.036
1,2-Dichlorobenzene	ND		0.036
Benzyl alcohol	ND		0.072
bis(2-chloroisopropyl)ether	ND		0.072
2-Methylphenol	ND		0.036
Hexachloroethane	ND		0.036
N-Nitroso-di-n-propylamine	ND		0.036
4-Methylphenol	ND		0.036
Nitrobenzene	ND		0.036
Isophorone	ND		0.036
2-Nitrophenol	ND		0.072
2,4-Dimethylphenol	ND		0.036
bis(2-Chloroethoxy)methane	ND		0.072
2,4-Dichlorophenol	ND		0.036
Benzoic acid	ND		0.36
1,2,4-Trichlorobenzene	ND		0.036
Naphthalene	ND		0.0072
4-Chloroaniline	ND		0.18
Hexachlorobutadiene	ND		0.072
4-Chloro-3-methylphenol	ND		0.036
2-Methylnaphthalene	ND		0.0072
1-Methylnaphthalene	ND		0.0072

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Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 2 of 3

Lab ID: 01-203-02
 Client ID: North Wall

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.36
2,4,6-Trichlorophenol	ND		0.072
2,4,5-Trichlorophenol	ND		0.072
2-Chloronaphthalene	ND		0.072
2-Nitroaniline	ND		0.072
Acenaphthylene	ND		0.0072
Dimethylphthalate	ND		0.072
2,6-Dinitrotoluene	ND		0.18
Acenaphthene	ND		0.0072
3-Nitroaniline	ND		0.18
2,4-Dinitrophenol	ND		0.36
Dibenzofuran	ND		0.036
2,4-Dinitrotoluene	ND		0.18
4-Nitrophenol	ND		0.036
Fluorene	ND		0.0072
4-Chlorophenyl-phenylether	ND		0.036
Diethylphthalate	ND		0.072
4-Nitroaniline	ND		0.18
4,6-Dinitro-2-methylphenol	ND		0.18
n-Nitrosodiphenylamine	ND		0.036
4-Bromophenyl-phenylether	ND		0.036
Hexachlorobenzene	ND		0.036
Pentachlorophenol	ND		0.36
Phenanthrene	ND		0.0072
Anthracene	ND		0.0072
Carbazole	ND		0.036
Di-n-butylphthalate	ND		0.036
Fluoranthene	ND		0.0072
Benzidine	ND		0.90
Pyrene	ND		0.0072

Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 3 of 3

Lab ID: 01-203-02
 Client ID: North Wall

Compound:	Results	Flags	PQL
Butylbenzylphthalate	ND		0.072
3,3'-Dichlorobenzidine	ND		0.36
Benzo[a]anthracene	ND		0.0072
Chrysene	ND		0.0072
bis(2-Ethylhexyl)phthalate	ND		0.18
Di-n-octylphthalate	ND		0.036
Benzo[b]fluoranthene	ND		0.0072
Benzo[k]fluoranthene	ND		0.0072
Benzo[a]pyrene	ND		0.0072
Indeno[1,2,3-cd]pyrene	ND		0.0072
Dibenz[a,h]anthracene	ND		0.0072
Benzo[g,h,i]perylene	ND		0.0072

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	62	25-121
Phenol-d6	68	24-113
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	84	19-122
Terphenyl-d14	78	18-137

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Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 1 of 3

Date Extracted: 1-28-05
 Date Analyzed: 1-31-05
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 01-203-03
 Client ID: West Wall

Compound:	Results	Flags	PQL
Aniline	ND		0.36
bis(2-Chloroethyl)ether	ND		0.072
Phenol	ND		0.036
2-Chlorophenol	ND		0.036
1,3-Dichlorobenzene	ND		0.036
1,4-Dichlorobenzene	ND		0.036
1,2-Dichlorobenzene	ND		0.036
Benzyl alcohol	ND		0.072
bis(2-chloroisopropyl)ether	ND		0.072
2-Methylphenol	ND		0.036
Hexachloroethane	ND		0.036
N-Nitroso-di-n-propylamine	ND		0.036
4-Methylphenol	ND		0.036
Nitrobenzene	ND		0.036
Isophorone	ND		0.036
2-Nitrophenol	ND		0.072
2,4-Dimethylphenol	ND		0.036
bis(2-Chloroethoxy)methane	ND		0.072
2,4-Dichlorophenol	ND		0.036
Benzoic acid	ND		0.36
1,2,4-Trichlorobenzene	ND		0.036
Naphthalene	ND		0.0072
4-Chloroaniline	ND		0.18
Hexachlorobutadiene	ND		0.072
4-Chloro-3-methylphenol	ND		0.036
2-Methylnaphthalene	ND		0.0072
1-Methylnaphthalene	ND		0.0072

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 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 2 of 3

Lab ID: 01-203-03
 Client ID: West Wall

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.36
2,4,6-Trichlorophenol	ND		0.072
2,4,5-Trichlorophenol	ND		0.072
2-Chloronaphthalene	ND		0.072
2-Nitroaniline	ND		0.072
Acenaphthylene	ND		0.0072
Dimethylphthalate	ND		0.072
2,6-Dinitrotoluene	ND		0.18
Acenaphthene	ND		0.0072
3-Nitroaniline	ND		0.18
2,4-Dinitrophenol	ND		0.36
Dibenzofuran	ND		0.036
2,4-Dinitrotoluene	ND		0.18
4-Nitrophenol	ND		0.036
Fluorene	ND		0.0072
4-Chlorophenyl-phenylether	ND		0.036
Diethylphthalate	ND		0.072
4-Nitroaniline	ND		0.18
4,6-Dinitro-2-methylphenol	ND		0.18
n-Nitrosodiphenylamine	ND		0.036
4-Bromophenyl-phenylether	ND		0.036
Hexachlorobenzene	ND		0.036
Pentachlorophenol	ND		0.36
Phenanthrene	ND		0.0072
Anthracene	ND		0.0072
Carbazole	ND		0.036
Di-n-butylphthalate	ND		0.036
Fluoranthene	ND		0.0072
Benzidine	ND		0.90
Pyrene	ND		0.0072

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 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 page 3 of 3

Lab ID: 01-203-03
 Client ID: West Wall

Compound:	Results	Flags	PQL
Butylbenzylphthalate	ND		0.072
3,3'-Dichlorobenzidine	ND		0.36
Benzo[a]anthracene	ND		0.0072
Chrysene	ND		0.0072
bis(2-Ethylhexyl)phthalate	ND		0.18
Di-n-octylphthalate	ND		0.036
Benzo[b]fluoranthene	ND		0.0072
Benzo[k]fluoranthene	ND		0.0072
Benzo[a]pyrene	ND		0.0072
Indeno[1,2,3-cd]pyrene	ND		0.0072
Dibenz[a,h]anthracene	ND		0.0072
Benzo[g,h,i]perylene	ND		0.0072

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	48	25-121
Phenol-d6	54	24-113
Nitrobenzene-d5	49	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	75	19-122
Terphenyl-d14	74	18-137

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 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 3

Date Extracted: 1-28-05
 Date Analyzed: 1-31-05
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0128S1

Compound:	Results	Flags	PQL
Aniline	ND		0.33
bis(2-Chloroethyl)ether	ND		0.067
Phenol	ND		0.033
2-Chlorophenol	ND		0.033
1,3-Dichlorobenzene	ND		0.033
1,4-Dichlorobenzene	ND		0.033
1,2-Dichlorobenzene	ND		0.033
Benzyl alcohol	ND		0.067
bis(2-chloroisopropyl)ether	ND		0.067
2-Methylphenol	ND		0.033
Hexachloroethane	ND		0.033
N-Nitroso-di-n-propylamine	ND		0.033
4-Methylphenol	ND		0.033
Nitrobenzene	ND		0.033
Isophorone	ND		0.033
2-Nitrophenol	ND		0.067
2,4-Dimethylphenol	ND		0.033
bis(2-Chloroethoxy)methane	ND		0.067
2,4-Dichlorophenol	ND		0.033
Benzoic acid	ND		0.33
1,2,4-Trichlorobenzene	ND		0.033
Naphthalene	ND		0.0067
4-Chloroaniline	ND		0.17
Hexachlorobutadiene	ND		0.067
4-Chloro-3-methylphenol	ND		0.033
2-Methylnaphthalene	ND		0.0067
1-Methylnaphthalene	ND		0.0067

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 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 METHOD BLANK QUALITY CONTROL
 page 2 of 3

Lab ID:

MB0128S1

Compound:	Results	Flags	PQL
Hexachlorocyclopentadiene	ND		0.33
2,4,6-Trichlorophenol	ND		0.067
2,4,5-Trichlorophenol	ND		0.067
2-Chloronaphthalene	ND		0.067
2-Nitroaniline	ND		0.067
Acenaphthylene	ND		0.0067
Dimethylphthalate	ND		0.067
2,6-Dinitrotoluene	ND		0.17
Acenaphthene	ND		0.0067
3-Nitroaniline	ND		0.17
2,4-Dinitrophenol	ND		0.33
Dibenzofuran	ND		0.033
2,4-Dinitrotoluene	ND		0.17
4-Nitrophenol	ND		0.033
Fluorene	ND		0.0067
4-Chlorophenyl-phenylether	ND		0.033
Diethylphthalate	ND		0.067
4-Nitroaniline	ND		0.17
4,6-Dinitro-2-methylphenol	ND		0.17
n-Nitrosodiphenylamine	ND		0.033
4-Bromophenyl-phenylether	ND		0.033
Hexachlorobenzene	ND		0.033
Pentachlorophenol	ND		0.33
Phenanthrene	ND		0.0067
Anthracene	ND		0.0067
Carbazole	ND		0.033
Di-n-butylphthalate	ND		0.033
Fluoranthene	ND		0.0067
Benzidine	ND		0.83
Pyrene	ND		0.0067

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 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

SEMIVOLATILES by EPA 8270C/SIM
 METHOD BLANK QUALITY CONTROL
 page 3 of 3

Lab ID:

MB0128S1

Compound:	Results	Flags	PQL
Butylbenzylphthalate	ND		0.067
3,3'-Dichlorobenzidine	ND		0.33
Benzo[a]anthracene	ND		0.0067
Chrysene	ND		0.0067
bis(2-Ethylhexyl)phthalate	ND		0.17
Di-n-octylphthalate	ND		0.033
Benzo[b]fluoranthene	ND		0.0067
Benzo[k]fluoranthene	ND		0.0067
Benzo[a]pyrene	ND		0.0067
Indeno[1,2,3-cd]pyrene	ND		0.0067
Dibenz[a,h]anthracene	ND		0.0067
Benzo[g,h,i]perylene	ND		0.0067

Surrogate :	Percent Recovery	Control Limits
2-Fluorophenol	54	25-121
Phenol-d6	58	24-113
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	75	19-122
Terphenyl-d14	78	18-137

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Date of Report: February 4, 2005
 Samples Submitted: January 26, 2005
 Laboratory Reference: 0501-203
 Project: Conoco-Marysville

**SEMIVOLATILES by EPA 8270C/SIM
 SB/SBD QUALITY CONTROL**

Date Extracted: 1-28-05
 Date Analyzed: 1-31-05
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: SB0128S1

Compound:	MB Amount	Spike Amount	SB	Percent Recovery	SBD	Percent Recovery	Recovery Limits	Flags
Phenol	ND	1.33	0.835	63	0.852	64	26-90	
2-Chlorophenol	ND	1.33	0.849	64	0.847	64	25-102	
1,4-Dichlorobenzene	ND	0.667	0.347	52	0.409	61	20-73	
N-Nitroso-di-n-propylamine	ND	0.667	0.385	58	0.407	61	41-126	
1,2,4-Trichlorobenzene	ND	0.667	0.369	55	0.414	62	30-83	
4-Chloro-3-methylphenol	ND	1.33	0.936	70	0.942	71	26-103	
Acenaphthene	ND	0.667	0.447	67	0.446	67	31-137	
2,4-Dinitrotoluene	ND	0.667	0.576	86	0.531	80	28-89	
4-Nitrophenol	ND	1.33	1.14	85	1.09	82	11-114	
Pentachlorophenol	ND	1.33	1.04	78	0.981	74	17-109	
Pyrene	ND	0.667	0.537	81	0.519	78	35-142	

	RPD	RPD Limits	Flags
Phenol	2	35	
2-Chlorophenol	0	50	
1,4-Dichlorobenzene	17	27	
N-Nitroso-di-n-propylamine	5	38	
1,2,4-Trichlorobenzene	11	18	
4-Chloro-3-methylphenol	1	33	
Acenaphthene	0	19	
2,4-Dinitrotoluene	8	47	
4-Nitrophenol	5	50	
Pentachlorophenol	6	47	
Pyrene	4	36	

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Date of Report: February 4, 2005
Samples Submitted: January 26, 2005
Laboratory Reference: 0501-203
Project: Conoco-Marysville

% MOISTURE

Date Analyzed: 1-26-05

Client ID	Lab ID	% Moisture
Bottom Sample	01-203-01	10
North Wall	01-203-02	7
West Wall	01-203-03	7



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- G - Insufficient sample quantity for duplicate analysis.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a silica gel cleanup procedure.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference



**OnSite
Environmental Inc.**
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • Fax: (425) 885-4603

Chain of Custody

Page 1 of 1

Laboratory Number: **01-203**

Turnaround Request
(in working days)

(Check One)

- ☐ Same Day ☐ 1 Day
☐ 2 Day ☐ 3 Day
☒ Standard (7 working days)
☐ _____ (other)

Requested Analysis

NWTPH-HClD	NWTPH-Gx/BTEX	NWTPH-DX	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total RCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH	% Moisture
		X			X	X									X
		X			X	X									X
		X			X	X									X
							GMC								

Company: **SECOR Int'l. Inc.**
Project Number: **Pending**
Project Name: **Conoco-Marysville**
Project Manager: **Marc Sauze**
Sampled by: **Greg McCormick**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.
1	Bottom Sample	1/26/05	11:00AM	S	1
2	North Wall	↓	↓	S	1
3	West Wall	↓	↓	S	1

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by	<i>[Signature]</i>	SECOR Int'l.	1/26/05	12:00	Please hold for possible additional analysis.
Received by	<i>[Signature]</i>	OnSite Inc.	1/26/05	12:00	
Relinquished by					
Received by					
Relinquished by					
Received by					
Reviewed by/Date		Reviewed by/Date			Chromatograms with final report <input checked="" type="checkbox"/>